

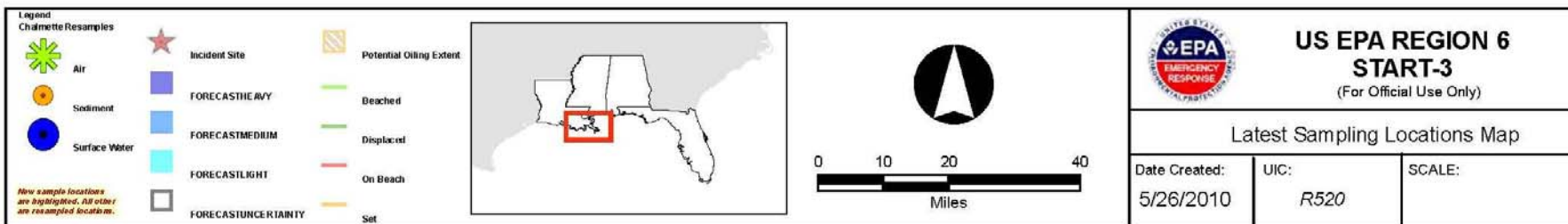


# Summary of EPA's Sampling and Monitoring Activities Deepwater Horizon Incident

## May 26, 2010

**Data Reporting Period:**

May 24, 2010 0000 – May 25, 2010 0000





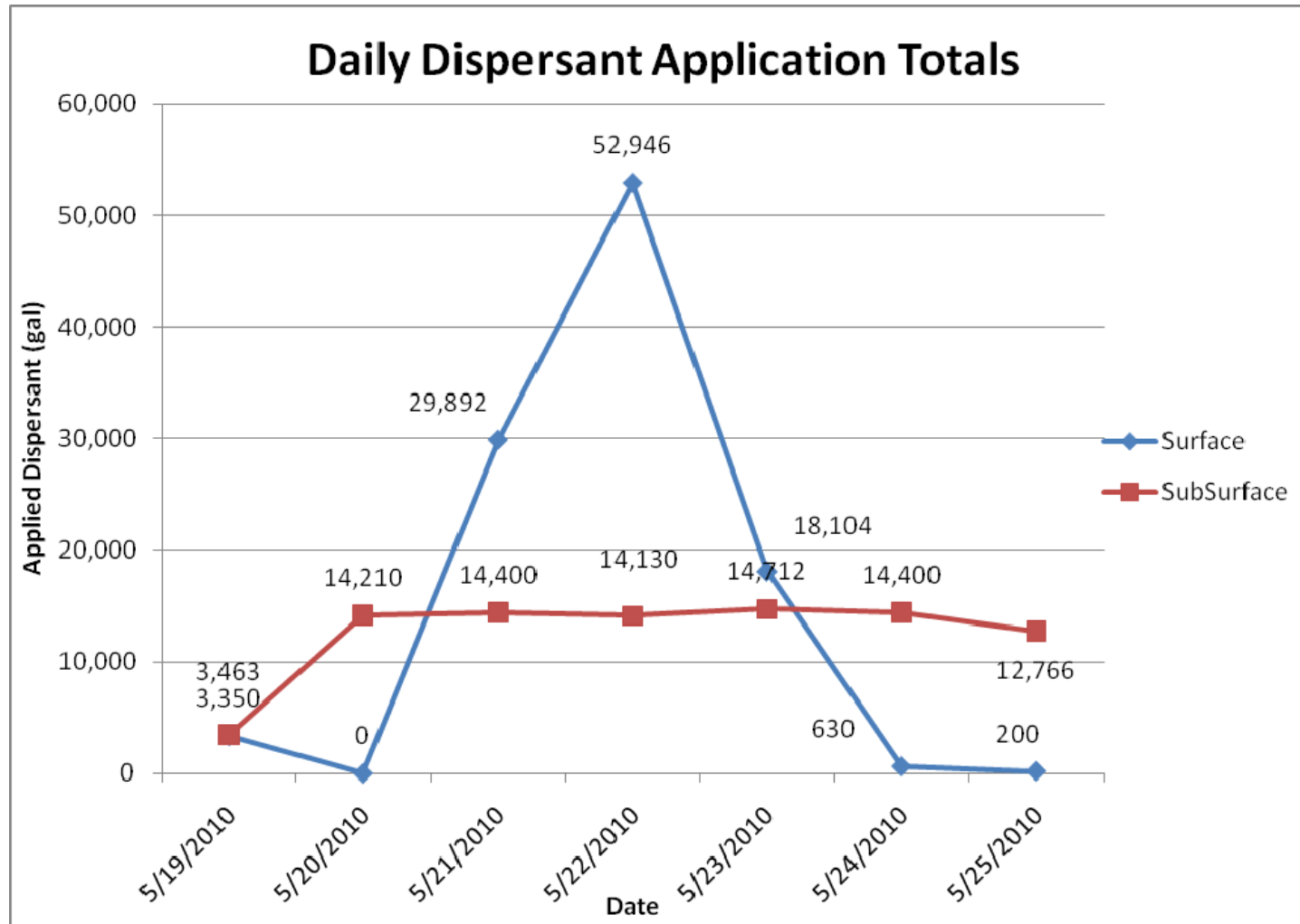
# Dispersant Application

	<b>TOTALS FOR 5/25 (gal.)</b>	<b>CUMULATIVE TOTALS (gal.)</b>
<b>Surface</b>	200	705,788
<b>Subsurface</b>	12,766	143,637

Data as of 5/25



# Dispersant Application Chart





# Samples

	<b>SUMMA Canisters</b>	<b>PQ200 (PM 2.5)</b>	<b>Water</b>	<b>Sediment</b>	<b>TOTALS for Reporting Period</b>	<b>TOTALS to date</b>
<b>Collected</b>	6	6	16	0	28	658
<b>Shipped</b>	6	6	16	0	28	642

\* Sample shipment delayed due to weekend (FedEx does not ship on Sunday);  
Samples collected on Saturday and Sunday will be shipped on Monday and reflected  
on that Sample Summary.



# Water Sampling



View of EPA Administrator Jackson collecting an oil sample near Pass a Loutre, La. on 5/24.



# Air Monitoring Data

	CO (ppm)	H2S (ppm)	OXYs (%)	PM10 (ug/m3)	VOCs (ppm)
C02	-	-	20.6	28.8	0.2
C04	-	-	20.8	28.2	0.2
C05	-	-	20.9	49.2	1.1
V02	0.7	0.1	21.3	40.2	0.1
V03	0.8	0.1	21.2	58.3	0.7
V05	1.1	0.4	21.1	39.3	0.2

\* Data shown above is a 24-hour average

“-” indicates no data collected

## Action Levels:

VOCs = 10 ppm; OXY (Oxygen) = acceptable range 19.5-23.5%,

PM10 (particulates) = 150 ug/m3; H2S = 0.5 ppm; CO = 35 ppm

Note: Action Levels based on OSHA PEL (VOCs and OXY), ATSDR Risk-Based Exposure Levels (PM10), and NIOSH RELs (H2S and CO)



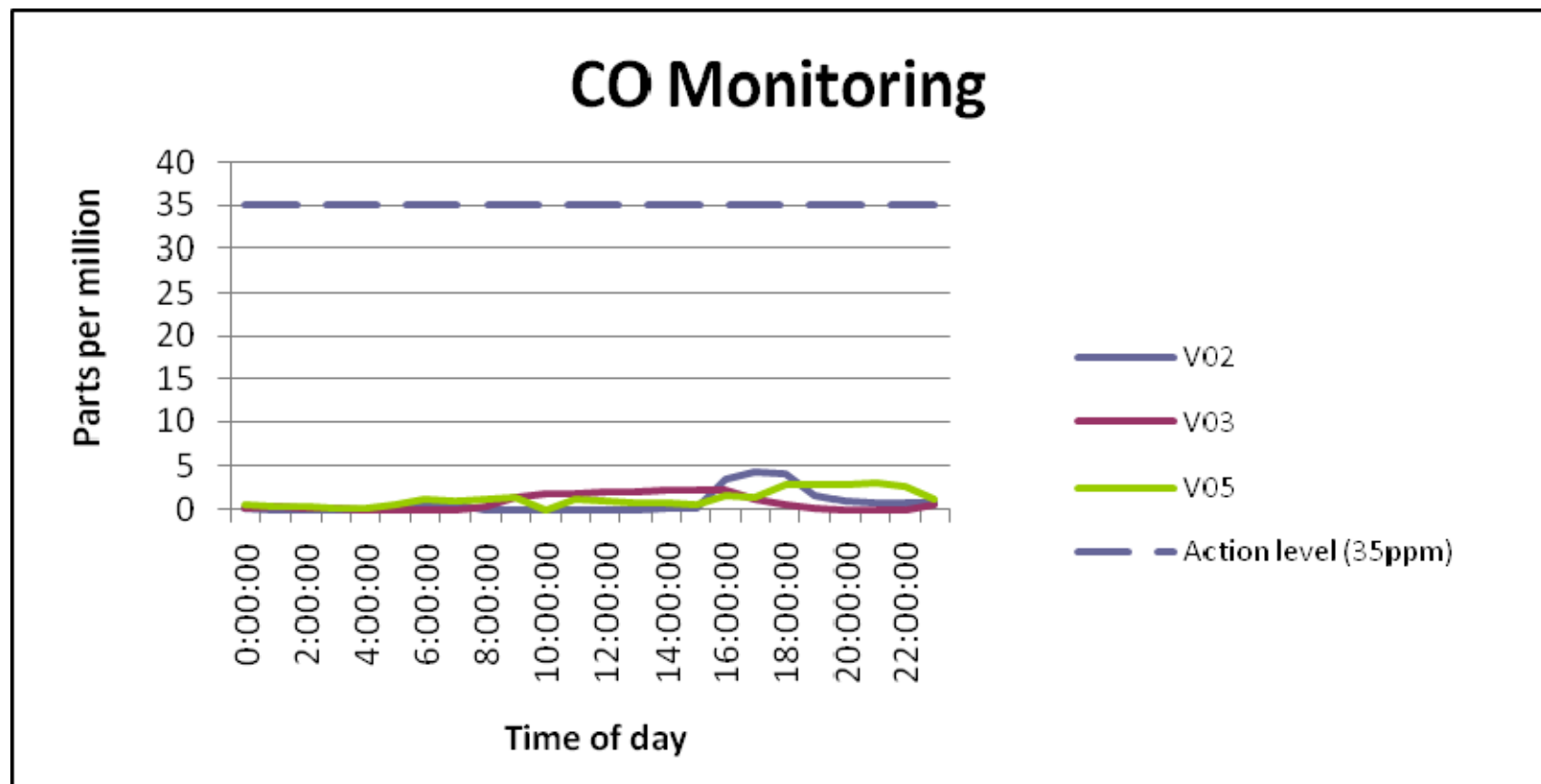
# Air Monitoring/Sampling



Air monitoring/sampling Location V02 in Venice, LA

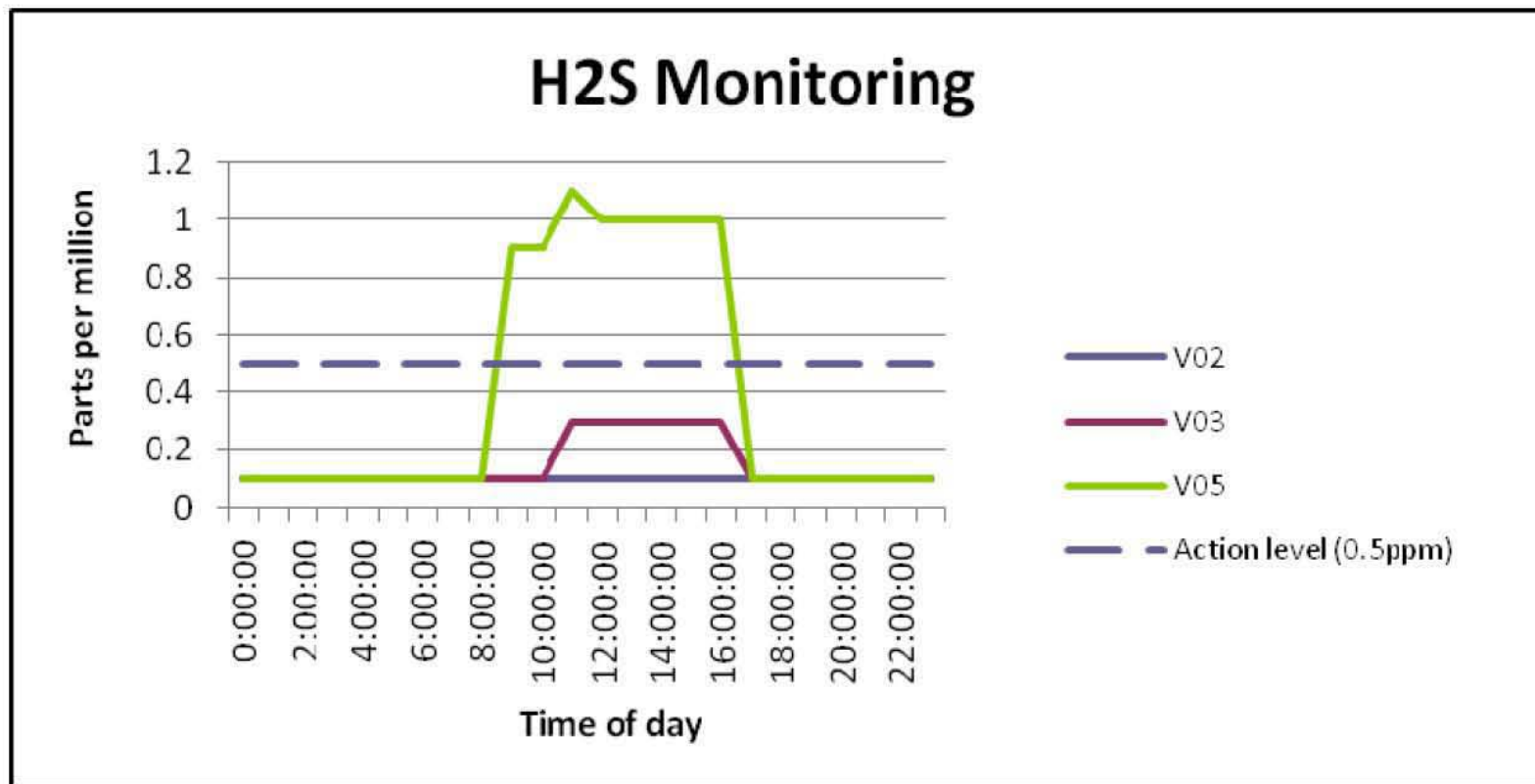


# CO Monitoring



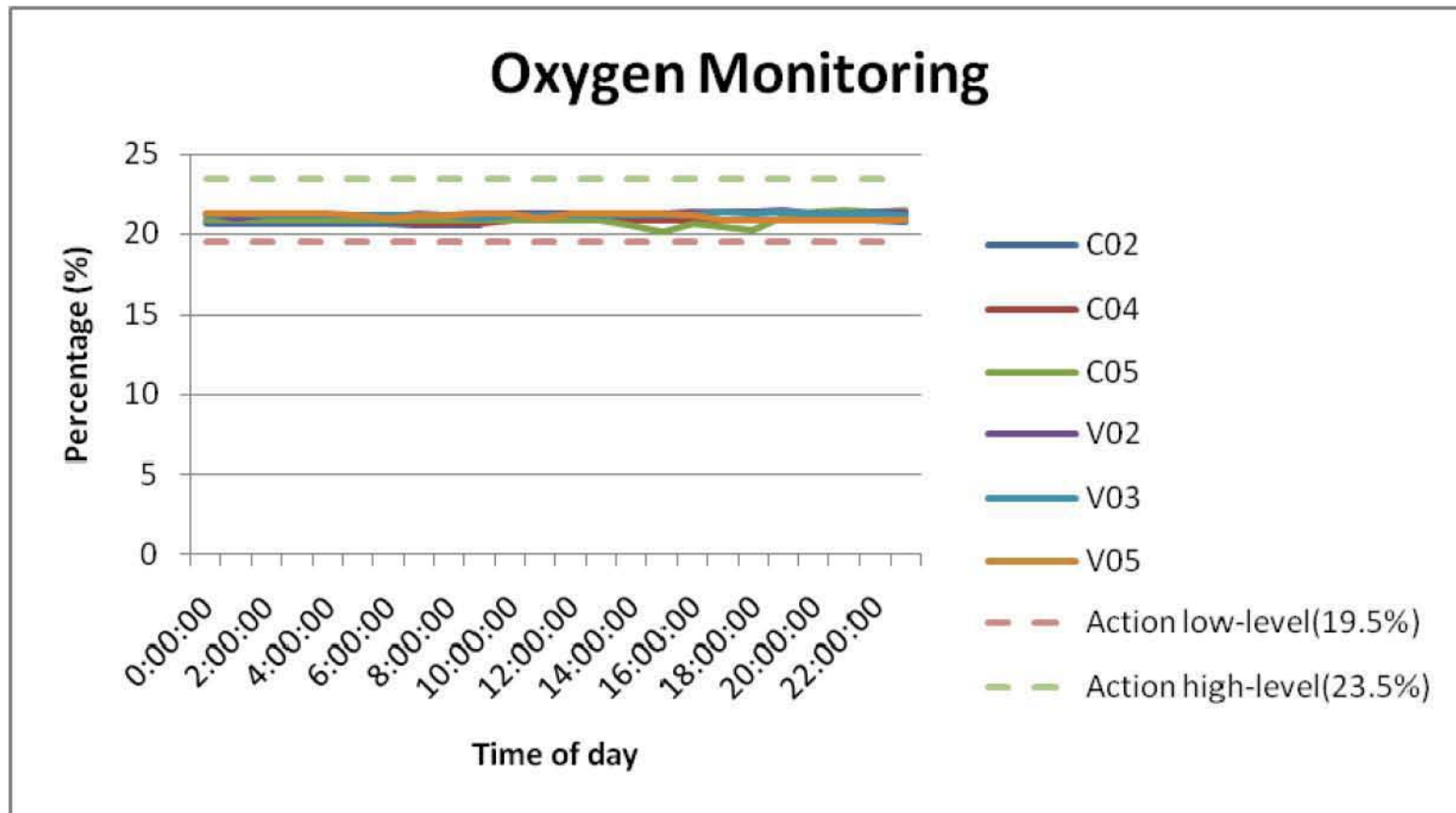


# H<sub>2</sub>S Monitoring



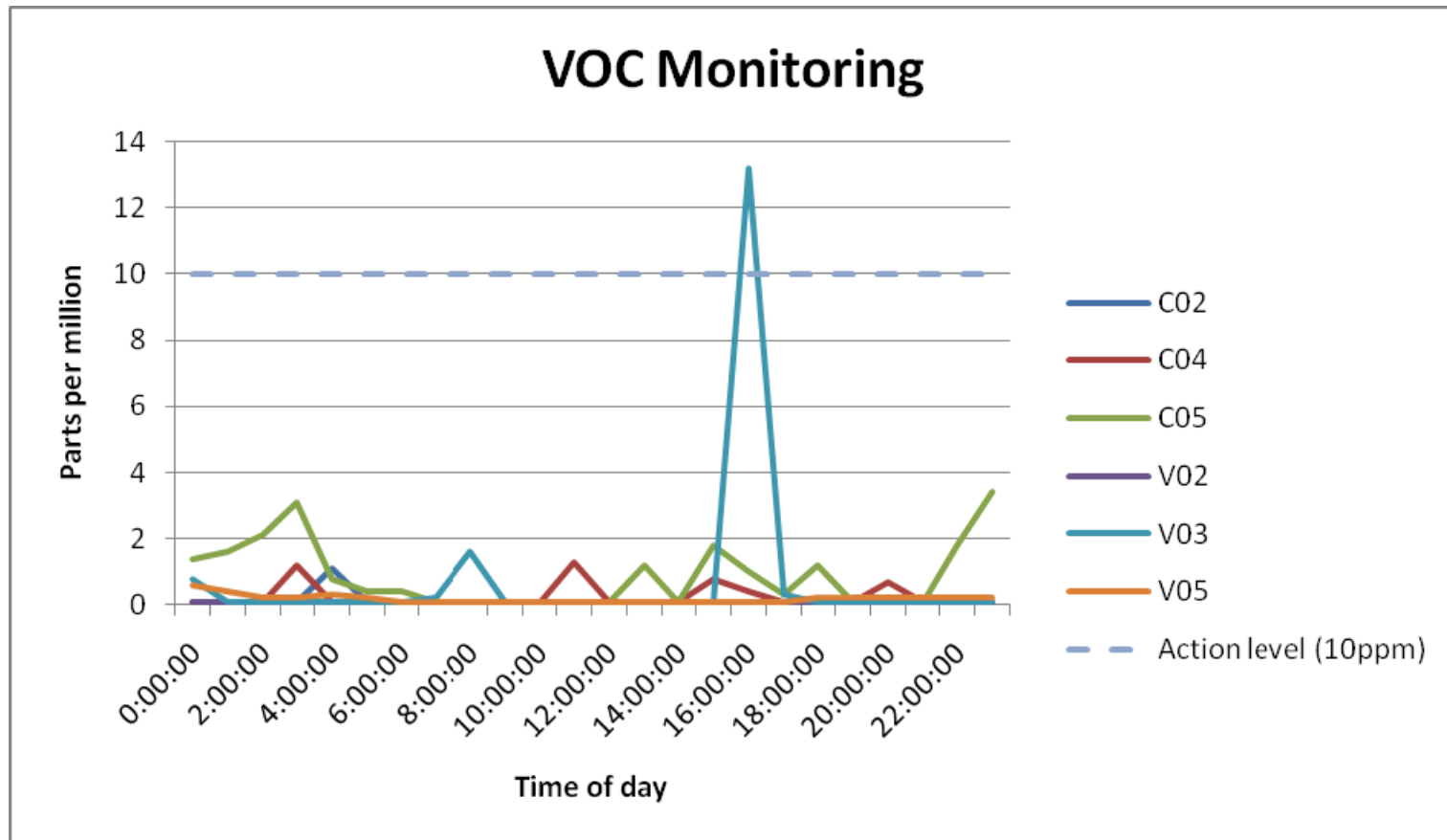


# Oxygen Monitoring



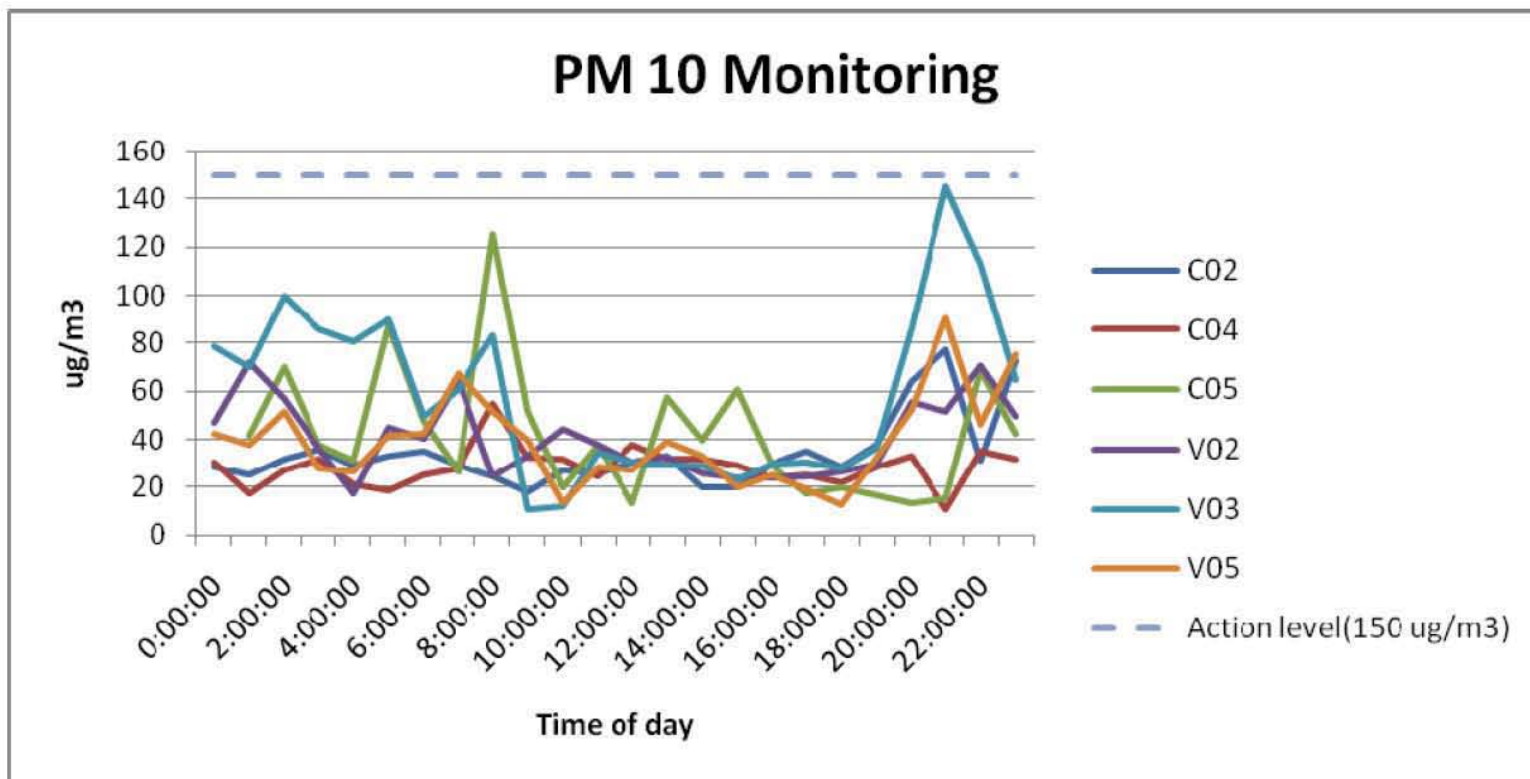


# VOC Monitoring





# PM 10 Monitoring





# Action Level Exceedences

- Air Monitoring/sampling Station V03 exceeded the VOC hourly average action level for the period reported at 1600 hours. The monitoring area contains cylinders that are moved by forklifts, which may have caused the spike in data. A Draeger tube was used to test for Benzene. Benzene was non-detect.
- Air Monitoring/sampling Station V05 exceeded the H<sub>2</sub>S hourly average action level from 0900 hours to 1500 hours. These elevated readings were associated with MultiRae Instrument RFW21153, which exhibited a cracked display screen. The MultiRae instruments used before and after the 0900 to 1500 time window, indicated H<sub>2</sub>S readings at 0.1 ppm.

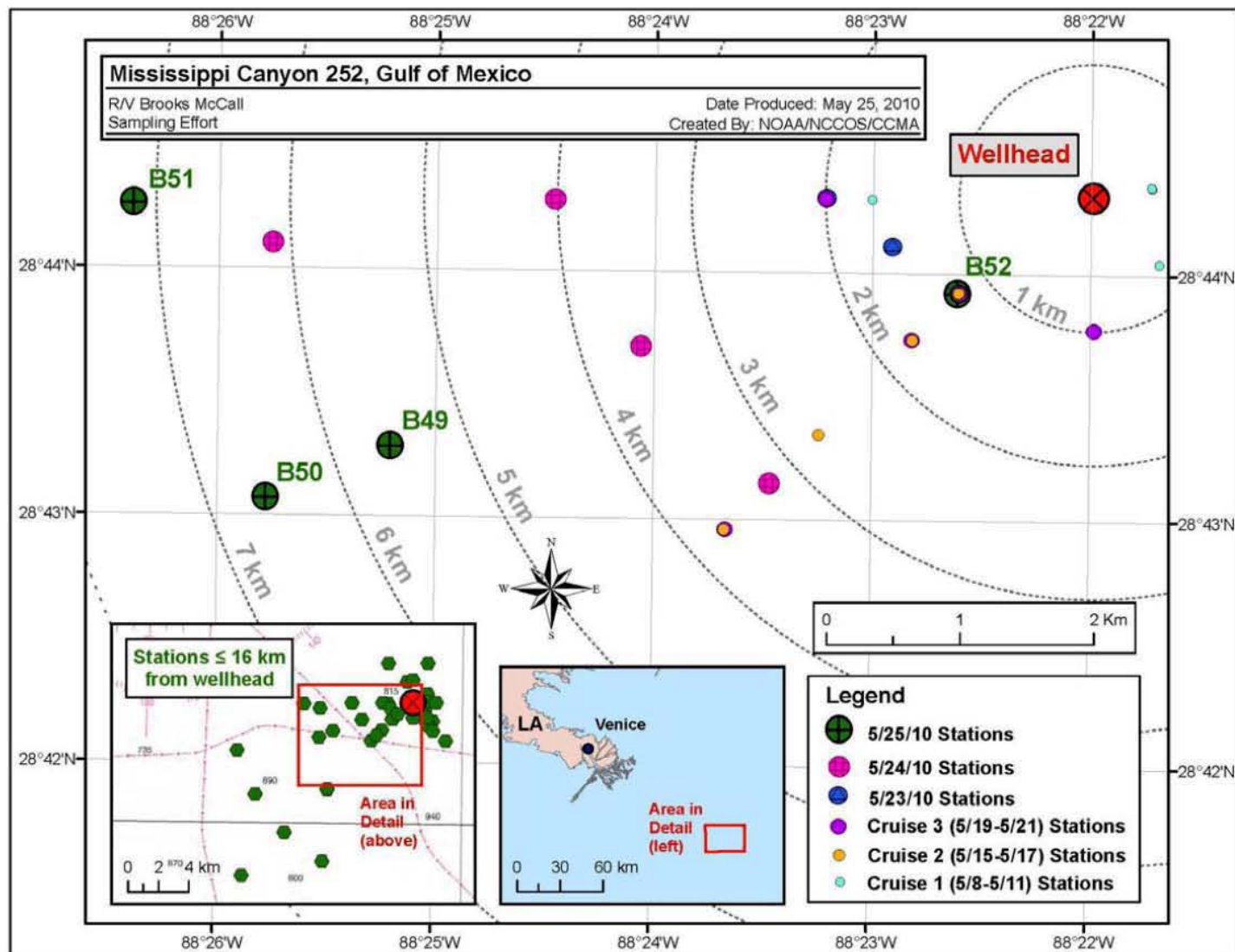


# Brooks McCall/Dispersant Summary

- The vessel continued to investigate the presence and location of the deep plume WSW of the wellhead out to a distance 7 km.
- The samples collected over the last two days found the thickest plume 'lens' (ranging between 1050m and 1300m deep) along a WSW transect and thinning to the north along the westerly transect and distinctly thinner to the south along the SW transect.
- Dissolved oxygen values collected by the CTD and Extech probes compared well with the historical DO profiles from the Gulf.
- Toxicity testing results from May 23 indicate survival rate ranging from 87% to 97% during exposure to the undiluted water sample.
- Beginning 5/27, the off-shore sampling effort will be augmented by the Ocean Veritas vessel, which will start sharing monitoring duties with the RV Brooks McCall. vessel



# Brooks McCall Sampling Map





# ASPECT Summary

- On 5/25, ASPECT documented the presence of oil along Half Moon Island and the southern marsh of the delta. ASPECT also documented oil recovery operations near the location of the rig. No controlled burns were noted.
- On 5/26, ASPECT began collecting data in the Grand Isle area and west side of the delta. ASPECT documented oil on the beaches of Grand Isle and reported that oil appeared heavier at the western end of the island. Cleanup crews were working on the Grand Isle area. ASPECT also reported oil on the beaches of Elmers Island, East Timbalier Island, and the Grand Terre Islands.



# Aspect Photograph



**Arial view of operations located southeast of Venice, LA.**



# TAGA Summary

- On 5/25, TAGA performed mobile monitoring for oil dispersant indicator compounds, OD-00 and OD-27, in Southern MS and AL from the Stennis Space Center to Dauphin Island, AL. All observed OD-00 and OD-27 indicator compounds were associated with a point source.
- TAGA plans to perform mobile monitoring for oil dispersant indicator compounds, OD-00 and OD-27, on 5/26 in southern LA from Slidell, LA to Port Fourchon and Grand Isle.



# ACTION PLAN

for

5/26/2010

- The Brooks McCall vessel will continue operations on 5/26.
- Water and oil sampling is planned for the Venice and Cocodrie Water Operations.
- TAGA will conduct mobile monitoring in southern LA
- ASPECT plans to document oiled beaches and oil recovery operations in the Grand Isle area and west side of the delta.
- Air Samples will be collected from 6 locations